



BOX PATENT
Attorney Docket No.: 24876-A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Benjamin GEBHART

Serial No.: 10/087,242

Group Art Unit: 3743

Filing Date: March 6, 2002

Examiner: not assigned

Title: **NUCLEATE BOILING SURFACES FOR COOLING AND GAS GENERATION**

TRANSMITTAL LETTER

Commissioner for Patents
Washington, D.C. 20231

Sir:

Submitted herewith for filing in the U.S. Patent and Trademark Office is the following:

- (1) Transmittal Letter;
- (2) Information Disclosure Statement; and
- (3) Form PTO-1449.

The Commissioner is hereby specifically authorized to charge any required fee, or credit any overpayment, in connection with this matter to deposit Account No. 14-0112.

Respectfully submitted,

NATH & ASSOCIATES PLLC

By: 

Gary M. Nath
Registration No. 26,965
Lee C. Heiman
Registration No. 41,827
Customer No. 20529

Date: July 3, 2002

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INFORMATION DISCLOSURE STATEMENT

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Sir:

Pursuant to Applicants' duty of disclosure under 37 C.F.R. §§ 1.56 and 1.97-1.99, the documents listed on the attached Form PTO-1449 are being brought to the attention of the Examiner in charge of the captioned application. No fee is required for this submission because it is submitted within three months from the filing date or before a First Action on the Merits has been mailed by the U.S. Patent and Trademark Office.

Copies of the documents are not required to be provided because they were previously submitted to, or cited by, the Patent Office in prior U.S. Patent Application No. 08/485,161, filed June 7, 1995, U.S. Patent Application No. 07/767,227, filed September 27, 1991, U.S. Patent Application No. 07/529,787, filed May 25, 1990, U.S. Patent Application No. 07/409,980, filed September 18, 1989, and U.S. Patent Application No. 07/159,713, filed February 24, 1988. The Examiner is respectfully requested to cite the

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documents listed on the attached Form PTO-1449 in the next Office Action. In so doing, the Examiner is respectfully requested to initial in the space adjacent to the listing of each document on the Form PTO-1449, and return a copy of the initialed Form PTO-1449 with the next communication to Applicants, to confirm that these documents have been considered by the Examiner and made of record in this application.

The Examiner is welcomed to telephone the undersigned attorney if (s)he has any questions or comments.

Respectfully submitted,

NATH & ASSOCIATES PLLC



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FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Attorney Docket
24876-ASerial Number
10/087,242

Applicant

Gebhart

Filing Date
March 6, 2002Group Art Unit
3743

U.S. PATENT DOCUMENTS

| Examiner Initial | | Document Number | Date | Name | Class | Sub-Class | Filing Date |
|------------------|----|-----------------|-------|-------------------|-------|-----------|-------------|
| | AA | 3301314 | 1/67 | Gaertner | | | |
| | AB | 3392781 | 7/68 | Zuber et al. | 165 | 133 | |
| | AC | 3454081 | 7/69 | Kun et al. | | | |
| | AD | 3521705 | 7/70 | Beurtheret et al. | 165 | 133 | |
| | AE | 3523577 | 8/70 | Milton | | | |
| | AF | 3684007 | 8/72 | Ragi | 165 | 133 | |
| | AG | 3906604 | 9/75 | Kakizaki et al. | 165 | 133 | |
| | AH | 4050507 | 9/77 | Chu et al. | | | |
| | AI | 4159739 | 7/79 | Brothers et al. | 165 | 133 | |
| | AJ | 4211276 | 7/80 | Itoh et al. | 165 | 133 | |
| | AK | 4258783 | 3/81 | Albertson et al. | | | |
| | AL | 4360058 | 11/82 | Muellejans | 165 | 133 | |
| | AM | 4474231 | 10/84 | Staub et al. | | | |
| | AN | 4663243 | 5/87 | Czikk et al. | | | |
| | AO | 4678029 | 7/87 | Sasaki et al. | | | |
| | AP | 4715433 | 12/87 | Schwartz et al. | | | |

FOREIGN PATENT DOCUMENTS

| | | Document Number | Date | Country | Class | Sub-Class | Translation |
|--|----|-----------------|------|---------------|-------|-----------|-------------|
| | AR | CA 709574 | 6/65 | Canada | 165 | 133 | Yes No |
| | AS | 610395 | 4/79 | Switzerland | 165 | 133 | Yes No |
| | AT | GB 387828 | 2/83 | Great Britain | 165 | 133 | Yes No |
| | AU | JP 37693 | 2/87 | Japan | 165 | 133 | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|--|----|--|--|
| | AV | | Miersch, E.F. "Natural LSI Process Step to Create Controllable Boiling Centers" IBM Tech Disc vol. 18 No. 2 Jul. 1975. |
|--|----|--|--|

Examiner

Date Considered

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609.
 Draw line through citation if not in conformance and not considered.
 Include copy of this form with next communication to Applicant.

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|--------------------|------|---------|-------|---------------|------------------|
| | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | |
|----|---|---|
| BA | | Hesketh et al., "Organ Pipe Radiant Modes of Periodic Micromachined Silicon Surfaces", Nature, vol. 324, pp. 549-551 (1986). |
| BB | | Gebhart, Heat Transfer, p. 371, McGraw-Hill, New York (1971). |
| BC | | Rohsenow, Handbook of Heat Transfer, pp. 13-28, McGraw-Hill, New York (1973). |
| BD | | Messina et al., "Effect of Precise Arrays of Pits on Nucleate Boiling", Int. J. Heat Mass Transfer, vol. 24, pp. 141-145 (1981). |
| BE | | Albertson et al., "Electroformed Boiling Surfaces" (undated). |
| BF | | Bergles et al., "Characteristics of Nucleate Pool Boiling from Porous Metallic Coatings", Journal of Heat Transfer, vol. 104, pp. 279-285, May (1982). |
| BG | ✓ | Marto et al., "Pool Boiling Heat Transfer from Enhanced Surfaces to Dielectric Fluids", Journal of Heat Transfer, vol. 104, pp. 292-299, May (1982). |
| BH | | Gebhart et al., "Boiling Enhancement on Micro-configured Surfaces", Inter. Comm. Heat Mass Transfer, vol. 15, No. 1, pp. 141-149, Mar.-Apr. (1988). |
| BI | | Nakayama et al., "Effects of Pore Diameters and System Pressure on Saturated Pool Nucleate", Journal of Heat Transfer, vol. 104, pp. 286-290, May (1982). |

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